WHAT IS CLAIMED IS:

 An electronic commercial transaction supporting method, comprising:

extracting, by a cell operation of a technique of cellular information theory, correspondence relations between attributes determined by respective viewpoints of a plurality of subjects involved in an electronic commercial transaction; recording the extracted correspondence relations; and presenting the recorded correspondence relations at a stage of an electronic commercial transaction.

An electronic commercial transaction supporting method, comprising:

specifying correspondence relations between attributes determined by respective viewpoints of a plurality of subjects involved in an electronic commercial transaction based on a predetermined equivalence relation;

extracting the specified correspondence relation by a cell operation based on cellular information theory;

accumulating extracted correspondence relations in a data table, based on actual examples of an electronic commercial transaction; and

presenting the accumulated correspondence relations as a

part of another electronic commercial transaction, by referring to the data table.

3. An electronic commercial transaction supporting method, comprising:

extracting, based on a predetermined equivalence relation, an attribute that is an object of interest common to a plurality of subjects involved in an electronic commercial transaction using a method of cell decomposition in cellular information theory; and

adding the extracted attribute to a cellular space corresponding to each of the plurality of subjects using a cell attachment.

4. An electronic commercial transaction supporting method, comprising:

extracting a correspondence relation between attributes that are objects of interest for a plurality of subjects involved in an electronic commercial transaction, from a stage of the electronic commercial transaction;

storing the extracted correspondence relation; and

presenting the stored correspondence relation at a stage
of another electronic commercial transaction.

- 5. A method according to Claim 4, wherein said extracting, storing and said presenting are repeated cyclically in such a way as to effect feedback.
- 6. An electronic commercial transaction supporting system, comprising:
- a plurality of shops which are connected to a network and present merchandise to customers via the network, wherein each shop of said plurality of shops comprises a data table which records correspondence relations between attributes that are objects of interest for a plurality of respective subjects in an electronic commercial transaction at a stage of the transaction; and
- a business information management system connected to the network, wherein said business information management system comprises a first functional block which transversely refers to respective data tables of said plurality of shops.
- 7. A system according to Claim 6, wherein said business information management system further comprises a second functional block which detects a desired correspondence relation from the correspondence relations recorded in the data tables of any of said plurality of shops.

- 8. A system according to Claim 7, wherein said business information management system further comprises a third functional block which presents the detected desired correspondence relation at a stage of an electronic commercial transaction at any of said plurality of shops or at another shop.
- 9. A system according to Claim 6, wherein a shop of said plurality of shops further comprises a local business information management block which manages the data table.
- 10. A system according to Claim 7, wherein a shop of said plurality of shops further comprises a local business information management block which manages the data table.
- 11. A system according to Claim 8, wherein a shop of said plurality of shops further comprises a local business information management block which manages the data table.
- 12. A system according to Claim 9, wherein said local business information management block comprises a maintaining functional block which inspects correspondence relations and suitably modifies the correspondence relations.

- 13. A system according to Claim 10, wherein said local business information management block includes a maintaining functional block which inspects correspondence relations and suitably modifies the correspondence relations.
- 14. A system according to Claim 11, wherein said local business information management block includes a maintaining functional block which inspects correspondence relations and suitably modifies the correspondence relations.
- 15. A system according to Claim 12, wherein said maintaining functional block detects an inconsistent correspondence relation among the recorded correspondence relations and deletes said inconsistent correspondence relation from the data table.
- 16. A system according to Claim 13, wherein said maintaining functional block detects an inconsistent correspondence relation among the recorded correspondence relations and deletes said inconsistent correspondence relation from the data table.
- 17. A system according to Claim 14, wherein said maintaining functional block detects an inconsistent correspondence

relation among the recorded correspondence relations and deletes said inconsistent correspondence relation from the data table.

- 18. A business information management system based on cellular information theory, comprising:
 - a first functional block which:

generalizes a join operation in a relational
model by an identification based on an equivalence class; and
records correspondence relations between
attributes that are objects of interest for a plurality of
subjects involved in a business, by the identification in a

local circumstance where the business is carried out:

a second functional block which reads out a desired correspondence relation from the recorded correspondence relations and reuses the desired correspondence relation at a stage of another business; and

a third functional block which maintains or updates the recorded correspondence relations based on a result of the business.

wherein a correspondence relation between attributes formed locally is made available globally by said functional blocks using a modeling guideline that does not assume the existence of a management entity who uniformly manages all the

attributes or interdependence relations of data.

- 19. A business information management system according to Claim 18, wherein the identification in said first functional block comprises a common subspace of cells corresponding to the respective attributes interest to one another, the common subspace being extracted by a cell decomposition operation.
- 20. A business information management system according to Claim 19, wherein, in said second functional block, a cell corresponding to the common subspace is attached to the cells corresponding to the respective attributes by a cell attaching operation.